

Passenger Seat Certification Requirements (How changes are made) :

Type Certificate – Airframe Certification.

Airframe manufacturers hold and are responsible for proof of airframe conformance with the TC. A Master Change or Service Bulletin is used for airframe modifications. These should be incorporated into the TC.

Supplemental Type Certificate (or local authority approved modifications) – Airframe Modifications.

STC applicant holds and is responsible for proof of conformance against aircraft TC.

FAA Technical Standing Order & CAA Declaration of Design & Performance approval – Seat Certification.

Note: OEMs (original equipment manufacturers) hold and are responsible for proof of seat conformance with TSO & DDPs.

Service Bulletin (or local authority approved modifications) used for seat modifications. These should be incorporated into TSO or DDP and comply with applicable legislation.

JAR 145 – Seat Overhaul & Maintenance Certification.

JAR 145 holders responsible for proof of seat conformance to approved data. (CMMs –Component Maintenance Manuals- & Service Bulletins).

JAR 21 – Seat Modifications.

JAR 21 holders responsible for generation of Service Bulletin (or local authority approved modifications) used for seat modifications and proof that changes conform with and are incorporated in TSO or DDP and comply with applicable legislation.

Seat Design & Installation Criteria. (Headline, not exhaustive).

Legislation:

JAR/FAR 25.561 Static Strength Requirements.

JAR/FAR 25.562 Emergency Landing & Dynamic Strength Requirements.

JAR/FAR 25.785 Requirements for Compartment Interiors.

JAR/FAR 25.853 Flammability Requirements.

CAA AWN 79 Emergency Exit Requirements

CAA AWN 64 Minimum Space for Seated Passengers.

CAA AWN 19 Bogus Parts

CAA AWN 58 Continuance of Flammability Requirements.

Design Standards:

TSO C39b Requirements for A/C Seats & Berths.

TSO C127 Requirements for A/C Seating Systems.

Advisory Data:

AC 25.562-1A Dynamic Certification.

AS8049 Dynamic Certification

D6-36230 Boeing Passenger Seat Design & Interface Criteria.

ABD0031 Gaseous Toxic Levels.

BA Policy:

CABGEN 3 Electrical Requirements.

CABGEN 5 Cabin Power Isolation.

CABGEN 8 16G Requirements.

Acronym Legend:

FAA: U.S. Federal Aviation Authority

CAA: United Kingdom Civil Aviation Authority

TSO: Technical Standard Order of the FAA

JAR: Joint Aviation Requirements (determined by the Joint Aviation Authorities (JAA), a European body set up by the member states of the European Civil Aviation Conference (ECAC).